

DELPHION

Log Out

Work Files

Saved Searches

RESEARCH

PRODUCTS

INSIDE DELPHION

My Account

Search: Quick/Number Boolean Advanced Derwent Help

The Delphion Integrated View

Get Now: ☒ PDF | [File History](#) | [Other choices](#)

Tools: [Add to Work File](#) | [Create new Work File](#) | [Add](#)

View: [INPADOC](#) | [Jump to:](#)

[Go to:](#) [Derwent](#)

☒ [Email this to a friend](#)

Title: JP2004033673A2: UNIFIED PROBABILITY FRAMEWORK FOR PREDICTING AND DETECTING INTRACEREBRAL STROKE MANIFESTATION AND MULTIPLE THERAPY DEVICE

Derwent Title: Automatically predicting and preventing electrographic onset of seizure in individual by extracting set of features from monitored signals, synthesizing probability vector, and applying intervention measure(s) [Derwent Record]

Country: JP Japan
Kind: A2 Document Laid open to Public inspection
Inventor: ECHAUZ JAVIER RAMON;
LITT BRIAN;
ESTELLER ROSANA;
VACHTSEVANOS GEORGE JOHN;

Assignee: TRUSTEES OF THE UNIV OF PENNSYLVANIA
[News, Profiles, Stocks and More about this company](#)

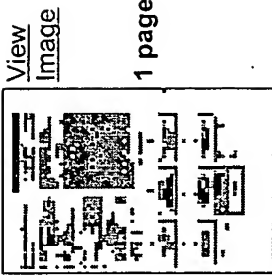
Published / Filed: 2004-02-05 / 2002-06-21

Application Number: JP2002000217294

IPC Code: IPC-7: [A61B 5/00](#); [A61B 5/0476](#); [A61B 5/0484](#); [A61N 1/08](#); [A61N 1/36](#);

Priority Number: 2002-06-21 JP2002000217294

Abstract: PROBLEM TO BE SOLVED: To provide a method and device for predicting and detecting epileptic seizure onsets enabling a portion of the device to automatically deliver a progression of multiple therapies, ranging from benign to aggressive as the probabilities of seizure warrant.
SOLUTION: Based on novel computational intelligence algorithms, a realistic posterior probability function P (ST/x)

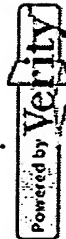


representing the probability of one or more seizures starting within the next T minutes, given observations (x) derived from EEG or other signals, is periodically synthesized for a plurality of prediction time horizons. When coupled with optimally determined thresholds for alarm or therapy activation, probabilities defined in this manner provide anticipatory time-localization of events in a synergistic logarithmic-like array of time resolutions, thus effectively circumventing the performance vs. prediction-horizon trade off of single resolution systems and corresponding to the aggressive therapy.

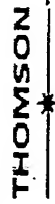
COPYRIGHT: (C)2004, JPO

Family: None

Other Abstract Info: None



Nominate this for the Gallery...



Copyright © 1997-2006 The Thomson Corporation
Subscriptions | Web Seminars | Privacy | Terms & Conditions | Site Map | Contact Us | Help